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Approved for public release; distribution is unlimited.

Title: Nucleosynthesis outreach slides

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Intended for: Explaining s- and r-process nucleosynthesis to the general public at

outreach events, specifically in a Planetarium show at the Pajarito

Environmental Education Center in Los Alamos

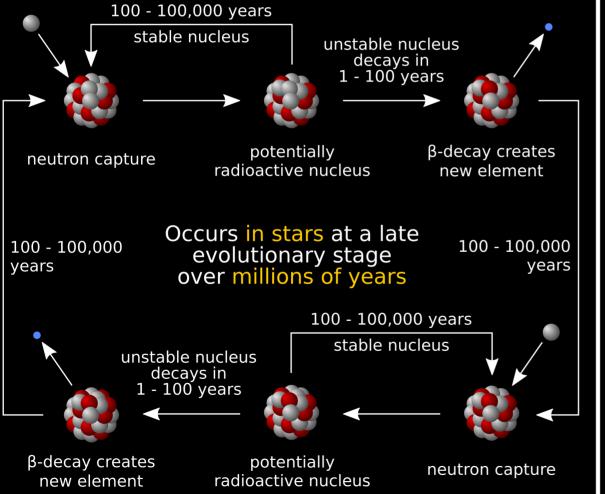
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Creating heavy elements by neutron capture

Slow neutron capture process (s-process)

There is a small number of free neutrons available, so the time to capture a neutron is much longer than the β -decay time.



Rapid neutron capture process (r-process)

There is a huge number of free neutrons available, so the time to capture a neutron is much shorter than the β -decay time.

